

INTERNATIONAL SEARCH REPORT

International Application No

PCT 03/00228

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01Q21/08 H01Q5/00 H01Q1/24 H01Q9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal; WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 13260 A (ERICSSON TELEFON AB L M) 9 March 2000 (2000-03-09) cited in the application page 3, line 24 -page 9, line 13; figure 4	1
A	WO 01 76010 A (HUBER & SUHNER AG ;HEYDE WOLFGANG (CH)) 11 October 2001 (2001-10-11) cited in the application figure 1	1
A	WO 99 59223 A (CSA LIMITED ;HUANG TAO (GB); LIU ZIDONG (GB); ARCHER MARTIN JOSEPH) 18 November 1999 (1999-11-18) cited in the application page 5, line 18 -page 6, line 28; figures 3,4	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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Date of the actual completion of the international search

15 May 2003

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INTERNATIONAL SEARCH REPORT

on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0013260	A	09-03-2000	AU 5888999 A	21-03-2000
			DE 19983498 T0	26-07-2001
			JP 2002524896 T	06-08-2002
			SE 9802883 A	29-02-2000
			WO 0013260 A1	09-03-2000
			US 6239750 B1	29-05-2001
WO 0176010	A	11-10-2001	AU 4220301 A	15-10-2001
			BR 0109773 A	21-01-2003
			WO 0176010 A1	11-10-2001
			EP 1269572 A1	02-01-2003
			US 2003058169 A1	27-03-2003
WO 9959223	A	18-11-1999	AU 3838999 A	29-11-1999
			WO 9959223 A2	18-11-1999